

## INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

Applicant: Wolinsky, et al

Filing Date: 12/31/2000      Group: 2621

## U.S. PATENT DOCUMENTS

Examiner's Initials	U.S. Patent No.	Applicant	Issue Date	Technology Center 2600 MAY 24, 2001 RECEIVED
A-T	3,816,722	Sakoe et al	June 11, 1974	
	3,936,800	Ejiri et al	February 3, 1976	
	3,967,100	Shimomura	June 29, 1976	
	3,968,475	McMahon	July 6, 1976	
	3,978,326	Shimomura	August 31, 1976	
	4,011,403	Epstein et al	March 8, 1977	
	4,115,702	Nopper	September 19, 1978	
	4,115,762	Akiyama et al	September 19, 1978	
	4,183,013	Agrawala et al	January 8, 1980	
	4,200,861	Hubach et al	April 29, 1980	
	4,254,400	Yoda et al	March 3, 1981	
	4,286,293	Jablonowski	Aug. 25, 1981	
	4,300,164	Sacks	November 10, 1981	
	4,385,322	Hubach et al	May 24, 1983	
	4,435,837	Abernathy	Mar. 6, 1984	
	4,441,124	Heebner et al	April 3, 1984	
	4,441,206	Kuniyoshi et al	April 3, 1984	
	4,519,041	Fant et al	May 21, 1985	
	4,534,813	Williamson et al	August 13, 1985	
	4,541,116	Lougheed	September 10, 1985	
	4,545,067	Juvin et al	October 1, 1985	
	4,570,180	Baier et al	February 11, 1986	
	4,577,344	Warren et al	Mary 18, 1986	
	4,581,762	Lapidus et al	April 8, 1986	
	4,606,065	Beg et al	August 12, 1986	
	4,617,619	Gehly	October 14, 1986	
	4,630,306	West et al	December 16, 1986	
	4,631,750	Gabriel et al	December 23, 1986	
	4,641,349	Flom et al	February 3, 1987	
	4,688,088	Hamazaki et al	August 18, 1987	
	4,706,168	Weisner	November 10, 1987	
	4,707,647	Coldren et al	November 17, 1987	
	4,728,195	Silver	March 1, 1988	
	4,730,260	Mori et al	March 8, 1988	
	4,731,858	Grasmueller et al	March 15, 1988	
	4,736,437	Sacks et al	April 5, 1988	
	4,742,551	Deering	May 3, 1988	

A-T

4,752,898	Koenig	June 1, 1988
4,758,782	Kobayashi	July 19, 1988
4,764,870	Haskin	August 16, 1988
4,771,469	Wittenburg	September 13, 1988
4,776,027	Hisano et al	Oct. 4, 1988
4,782,238	Radl et al	November 1, 1988
4,783,826	Koso	November 8, 1988
4,783,828	Sadjadi	November 8, 1988
4,783,829	Miyakawa et al	November 8, 1988
4,809,077	Norita et al	February 28, 1989
4,821,333	Gillies	April 11, 1989
4,831,580	Yamada	May 16, 1989
4,860,374	Murakami et al	August 22, 1989
4,860,375	McCubbrey et al	August 22, 1989
4,876,457	Bose	October 24, 1989
4,876,728	Roth	October 24, 1989
4,891,767	Rzasa et al	January 2, 1990
4,903,218	Longo et al	February 20, 1990
4,907,169	Lovoi	March 6, 1990
4,908,874	Gabriel	March 13, 1990
4,912,559	Ariyoshi et al	Mar. 27, 1990
4,912,659	Liang	March 27, 1990
4,914,553	Hamada et al	April 3, 1990
4,922,543	Ahlbom et al	May 1, 1990
4,926,492	Tanaka et al	May 15, 1990
4,932,065	Feldgajer	June 5, 1990
4,953,224	Ichinose et al	August 28, 1990
4,955,062	Terui	September 4, 1990
4,959,898	Landman et al	October 2, 1990
4,962,423	Yamada et al	October 9, 1990
4,972,359	Silver et al	November 20, 1990
4,982,438	Usami et al	January 1, 1991
5,005,126	Haskin	April 2, 1991
5,012,402	Akiyama	April 30, 1991
5,012,433	Callahan et al	April 30, 1991
5,012,524	LeBeau	April 30, 1991
5,027,419	Davis	June 25, 1991
5,046,190	Daniel et al	September 3, 1991
5,054,096	Beizer	October, 1991
5,060,276	Morris et al	October 22, 1991
5,063,608	Siegel	November 5, 1991
5,073,958	Imme	December 17, 1991
5,081,656	Baker et al	January 14, 1992
5,081,689	Meyer et al	January 14, 1992
5,083,073	Kato	January 21, 1992
5,086,478	Kelly-Mahaffey et al	February 4, 1992
5,090,576	Menten	February 1992
5,091,861	Geller et al	February 25, 1992

RECEIVED

May 1, 2001

Technology Center 2600

A-1	5,091,968	Higgins et al	February 25, 1992
	5,093,867	Hori et al	March 3, 1992
	5,113,565	Cipolla et al	May 19, 1992
	5,115,309	Hang	May 1992
	5,119,435	Berkin	June 2, 1992
O I P E MAY 24 2001 PATENT & TRADEMARK OFFICE	5,124,622	Kawamura et al	June 23, 1992
	5,133,022	Weideman	July 21, 1992
	5,134,575	Takagi	July 28, 1992
	5,143,436	Baylor et al	September 1, 1992
	5,145,432	Midland et al	September 8, 1992
	5,151,951	Ueda et al	September 29, 1992
	5,153,925	Tanioka et al	October 6, 1992
	5,155,775	Brown	October 13, 1992
	5,159,281	Hedstrom et al	October 27, 1992
	5,159,645	Kumagai	October 27, 1992
	5,164,994	Bushroe	November 17, 1992
	5,168,269	Harlan	December 1, 1992
	5,175,808	Sayre	December 29, 1992
	5,179,419	Palmquist et al	Jan. 12, 1993
	5,185,810	Freischlad	February 9, 1993
	5,185,855	Kato et al	February 9, 1993
	5,189,712	Kajiwara et al	February 23, 1993
	5,204,944	Wolberg et al	April 20, 1993
	5,206,820	Ammann et al	April 27, 1993
	5,216,503	Paik	January 6, 1993
	5,225,940	Ishii et al	July 6, 1993
	5,230,027	Kikuchi	July 20, 1993
	5,243,607	Masson et al	September 7, 1993
	5,253,306	Nishio	October 12, 1993
	5,253,308	Johnson	October 12, 1993
	5,265,173	Griffin et al	November 23, 1993
	5,271,068	Ueda et al	December 14, 1993
	5,287,449	Kojima	February 15, 1994
	5,297,238	Xuguang Wang et al	March 22, 1994
	5,297,256	Wolstenholme et al	March 22, 1994
	5,299,269	Gaborski et al	March 29, 1994
	5,307,419	Tsujino et al	April 26, 1994
	5,311,598	Bose et al	May 10, 1994
	5,315,388	Shen et al	May 24, 1994
	5,319,457	Nakahashi et al	June 1994
	5,327,156	Masukane et al	July 5, 1994
	5,329,469	Atsushi Watanabe	July 12, 1994
	5,337,262	Luthi et al	Aug. 9, 1994
	5,337,267	Colavin	August 9, 1994
	5,363,507	Nakayama et al	November 8, 1994
	5,367,439	Mayer et al	November 22, 1994
	5,367,667	Wahlquist et al	November 22, 1994
	5,371,690	Engel et al	December 6, 1994

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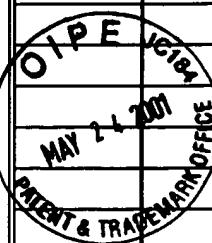
MAY 25 2001  
Technology Center 2600

A - T	5,371,836	Mitomi et al	December 6, 1994
	5,388,197	Rayner	February 7, 1995
	5,388,252	Dreste et al	February 7, 1995
	5,398,292	Aoyama	March 14, 1995
	5,432,525	Maruo et al	July 11, 1995
	5,440,699	Farrand et al	August 8, 1995
	5,455,870	Sepai et al	October 3, 1995
	5,455,933	Schieve et al	October 3, 1995
	5,471,312	Atsushi Watanabe et al	November 28, 1995
	5,475,766	Tsuchiya et al	December 12, 1995
	5,475,803	Stearns et al	December 12, 1995
	5,477,138	Efjovic et al	December 19, 1995
	5,481,712	Silver et al	January 2, 1996
	5,485,570	Bushboom et al	January 16, 1996
	5,491,780	Fyles et al	February 13, 1996
	5,495,424	Tokura	February 27, 1996
	5,495,537	Bedrosian et al	February 27, 1996
	5,496,106	Anderson	March 5, 1996
	5,500,906	Picard et al	March 19, 1996
	5,506,617	Parulski et al	April 9, 1996
	5,506,682	Pryor	April 9, 1996
	5,511,015	Flockencier	April 23, 1996
	5,519,840	Matias et al	May 21, 1996
	5,526,050	King et al	June 11, 1996
	5,528,703	Lee	June 18, 1996
	5,532,739	Garakani et al	July 2, 1996
	5,539,409	Mathews et al	July 23, 1996
	5,544,256	Brecher et al	August 6, 1996
	5,548,326	Michael	August 20, 1996
	5,550,763	Michael	August 27, 1996
	5,550,888	Neitzel et al	August 27, 1996
	5,553,859	Kelly et al	Sep. 10, 1996
	5,557,410	Edward D. Huber et al	September 17, 1996
	5,557,690	O'Gorman et al	September 17, 1996
	5,566,877	McCormack	October 22, 1996
	5,568,563	Tanaka et al	October 22, 1996
	5,574,668	Beaty	November 12, 1996
	5,574,801	Collet-Beillon	November 12, 1996
	5,581,632	Koljonen et al	December 3, 1996
	5,583,949	Smith et al	December 10, 1996
	5,583,954	Garakani	December 10, 1996
	5,586,058	Aloni et al	December 17, 1996
	5,592,562	Rooks	January 7, 1997
	5,594,859	Palmer et al	January 14, 1997
	5,602,937	Bedrosian et al	February 11, 1997
	5,608,490	Ogawa	March 4, 1997
	5,608,872	Schwartz et al	March 4, 1997
	5,640,199	Garakani et al	June 17, 1997

RECEIVED

MAY 25 2001

Technology Center 2600



A-1	5,640,200	Michael	June 17, 1997
	5,642,158	Petry, III et al	June 24, 1997
	5,647,009	Aoki et al	July 8, 1997
	5,649,032	Burt et al	July 15, 1997
	5,657,403	Wolff et al	August 12, 1997
	5,673,334	Nichani et al	September 30, 1997
MAY 16 2001 U.S. PATENT & TRADEMARK OFFICE	5,675,358	Bullock et al	October 7, 1997
	5,676,302	Petry, III	October 14, 1997
	5,684,530	White	November 4, 1997
	5,696,848	Patti et al	December 9, 1997
	5,715,369	Spoltman et al	Feb. 3, 1998
	5,715,385	Stearns et al	February 3, 1998
	5,717,785	Silver	February 10, 1998
	5,724,439	Mizuoka et al	Mar. 3, 1998
	5,734,807	Sumi	March 31, 1998
	5,740,285	Bloomberg et al	April 14, 1998
	5,742,037	Scola et al	April 21, 1998
	5,751,853	Michael	May 12, 1998
	5,754,679	Koljonen et al	May 19, 1998
	5,757,956	Koljonen et al	May 26, 1998
	5,761,326	Brady et al	June 2, 1998
	5,761,337	Nishimura et al	June 2, 1998
	5,768,443	Michael et al	June 16, 1998
	5,793,899	Wolff et al	August 11, 1998
	5,796,386	Lipscomb et al	August 18, 1998
	5,796,868	Dutta-Choudhury	August 18, 1998
	5,801,966	Ohashi	September 1, 1998
	5,805,722	Cullen et al	September 8, 1998
	5,809,658	Jackson et al	September 22, 1998
	5,818,443	Schott	October 6, 1998
	5,822,055	Tsai et al	October 13, 1998
	5,825,483	Michael et al	October 20, 1998
	5,825,913	Rostami et al	October 20, 1998
	5,835,099	Marimont	November 10, 1998
	5,835,622	Koljonen et al	November 10, 1998
	5,845,007	Ohashi, et al	December 1, 1998
	5,847,714	Naqvi et al	December 8, 1998
	5,848,189	Pearson et al	December 8, 1998
	5,850,466	Schott	December 15, 1998
	5,859,923	Petry, III et al	January 12, 1999
	5,861,909	Garakani et al	January 19, 1999
	5,872,870	Michael	February 16, 1999
	5,878,152	Sussman	March 2, 1999
	5,900,975	Sussman	May 4, 1999
	5,901,241	Koljonen et al	May 4, 1999
▼	5,909,504	Whitman	June 1, 1999
	5,912,768	Sissom et al	June 15, 1999

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Technology Center 2600

MAY 25 2001

<i>A-T</i>	5,912,984	Michael et al	June 5, 1999	
	5,918,196	Jacobson	June 29, 1999	
	5,933,523	Drisko et al	August 3, 1999	
	5,943,441	Michael	August 24, 1999	RECEIVED
<i>O I P E</i> <i>PTO</i> <i>MAY 26 2001</i>	5,949,901	Nichani et al	September 7, 1999	MAY 25 2001
	5,974,169	Bachelder	October 26, 1999	Technology Center 2600
<i>PATENTS &amp; TRADEMARK OFFICE</i>	6,002,738	Cabral et al	December 14, 1999	
	6,016,152	Dickie	January 18, 2000	
	6,069,668	Woodham, Jr. et al	May 30, 2000	

#### FOREIGN PATENT DOCUMENTS

Examiner's Initials	Document No.	Country	Date	Translation	
				Yes	No
<i>A-T</i>	WO 95/21376	PCT	August 10, 1995		
	WO 95/22137	PCT	August 17, 1995		
	WO 97/21189	PCT	June 12, 1997		
	WO 97/22858	PCT	June 26, 1997		
	WO 97/24692	PCT	July 10, 1997		
	WO 97/24693	PCT	July 10, 1997		
	WO 98/30890	PCT	July 16, 1998		
	WO 98/52349	PCT	November 19, 1998		
	WO 98/59490	PCT	December 30, 1998		
	WO 99/15864	PCT	April 1, 1999		
	0 265 302 A1	EPO	September 15, 1987		
	0 341 122 A1	EPO	April 21, 1989		
	0 527 632 A2	EPO	February 1993		
	0 777 381 A2	EPO	November 11, 1996		
	2 598 019	FR	25-Apr-86		

EXAMINER *Abolfazl Tabatabai*

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Initials		OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)
<i>OPEN</i>	<i>REC'D</i>	Bursky, Dave, "CMOS Four-Chip Set Process Images at 20-MHz Data Rates," ELECTRONIC DESIGN, May 28, 1987, pp. 39-44 <span style="float: right;">RECEIVED</span>
<i>MAY 2 2001</i>	<i>SEARCHED</i>	Chapter 3: "Guidelines for Developing MMX Code," Intel.
<i>PATENT &amp; TRADEMARK SEARCH</i>	<i>INDEXED</i>	Chapter 4: "MMX Code Development Strategy," Intel. <span style="float: right;">MAY 7 2001</span>
		Chapter 5: "MMX Coding Techniques," Intel. <span style="float: right;">Technology Center 2600</span>
		Chapter 3: "Optimization Techniques for Integer Blended Code," Intel.
		"Geometrical Image Modification," pp. 421-442.
		Gevorkian David Z., Astola Jaakko T., and Atourian Samvel M. "Improving Gil-Werman Algorithm for Running Min and Max Filters" IEEE Transactions on Pattern Analysis and Machine Intelligence, Vol. 19, No. 5, May 1997, pp. 526-529.
		Gil, Joseph and Werman Michael. "Computing 2-D Min, Median, and Max Filters" IEEE Transactions on Pattern Analysis and Machine Intelligence, Vol. 15, No. 5, May 1993, pp. 504-507.
		Grimson, W. Eric L. and Huttenlocher, Daniel P., "On the Sensitivity of the Hough Transform for Object Recognition", May 1990, IEEE Transactions on Pattern Analysis and Machine Intelligence, Vol 12, No. 3
		Horn, Berthold Klaus Paul. "Robot Vision", The Massachusetts Institute for Technology, 1986
		Medina-Mora et al. (1981) An Incremental Programming Environment, IEEE Transactions on Software Eng. SE-7:472-482
		NEC Electronics Inc., PD7281 Image Pipelined Processor, Product Information Brochure, pp. 2-169-2-211
		Newsletter from Acuity Imaging, Inc., "Remote Vision Support Package - The Phones Are Ringing!," 1 page
		PictureTel Corporation Product Brochure "PICTURETEL LIVE PCS 100(tm) Personal Visual Communications System," 3 pp. (1993)
		PictureTel Corporation Product Brochure "PICTURETEL SYSTEM 1000: COMPLETE VIDEOCONFERENCING FOR COST SENSITIVE APPLICATIONS," 4 pp. (1993)
		PictureTel Corporation Product Brochure, "PICTURETEL SYSTEM 4000(tm) A FAMILY OF MODELS TO FIT YOUR APPLICATION FROM OFFICES TO BOARDROOMS, CLASSROOMS, AND AUDITORIUMS," 4 pp. (1993)
		Plessey Semiconductors, Preliminary Information, May 1986, Publication No. PS2067, May 1986, pp. 1-5
		Pratt, William K. Digital Image Processing (2nd Ed.), 1991, pp. 421-445.
		Racca Roberto G., Stephenson Owen, and Clements Reginald M. High-speed video analysis system using multiple shuttered charge-coupled device imagers and digital storage. OPTICAL ENGINEERING (June 1992) 31;6.
		Ray, R. "Automated inspection of solder bumps using visual signatures of specular image-highlights," Computer Vision and Pattern Recognition, 1989. Proceedings CVPR '89. Pp. 588-596.
		Rosenfeld, Azriel. "Computer Vision: Basic Principles," Proceedings of the IEEE. Vol. 76, No. 8, August 1988. pp. 863-868
<i>V</i>		Symantec Corporation, "THE NORTON pcANYWHERE USER'S GUIDE," Table of Contents 8 pp; Introduction of pcANYWHERE Technology pp i-vii; Chapter 7 - Sessions; pp. 191-240 (1991)

Initials	OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)
<i>A-T</i>	Teitelbaum et al. (19810 The Cornell Program Synthesizer: A Syntax-Directed Programming Environment, Communications of the ACM 24:563-573
<i>SCRA</i> MAY 21 2001 PATENT & TRADEMARK OFFICE	Tsai, Roger Y. "A Versatile Camera Calibration Technique for High-Accuracy 3D Machine Vision Metrology Using Off-the-Shelf TV Cameras and Lenses," The Journal of Robotics and Automation, Vol RA-3, No. 4, August 1987, pp. 323-344.
	Tsai, Roger Y. "An Efficient and Accurate Camera Calibration Technique for 3D Machine Vision," Proceedings IEEE Conference on Computer Vision and Pattern Recognition June 22-26, 1986, pp. 364-374.
	Turney, Jerry L. "Recognizing Partially Occluded Parts," IEEE Transactions on Pattern Analysis and Machine Intelligence, PAMI-7 (1985) July, No. 4, pp. 410-421.
	Unser, Michael. "Convolution-Based Interpolation for Fast, High-Quality Rotation of Images," IEEE Transactions on Image Processing Vol. 4 No. 10 (October 1995) pp. 1371-1381.
	Viitanen, Jouko, et al. "Hierarchical pattern matching with an efficient method for estimating rotations," Proceedings IECON '87 International Conference on Industrial Electronics, Control, and Instrumentation, November 3-6, 1987, 6 pp.
<i>V</i>	Wu, Yifeng and Maitre, Henri. "Registration of a SPOT Image and a SAR Image Using Multiresolution Representation of a Coastline," 10th International Conference on Pattern Recognition June 16-21, 1990, pp. 913-917.
EXAMINER <i>Abolfazl Tabatabai</i>	DATE CONSIDERED <i>3/15/04</i>
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

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